

# CS1708i/CS1716i

KVM on the NET™



The CS1708i and CS1716i KVM switches are IP-based KVM control units that allow both local and remote operators to monitor and access multiple computers from a single console. For example, a single CS1708i or CS1716i can control up to 8 or 16 computers. By daisy chaining up to 15 additional CS1708A or CS1716A switches, as many as 128 or 256 computers can all be controlled from a single keyboard-monitor-mouse console.

Since the CS1708i / CS1716i uses TCP/IP for its communications protocol, it can be accessed from any computer on the Net - whether that computer is located down the hall, down the street, or half-way around the world

Remote operators can log in from anywhere on the net via their browser. Once they successfully log in, operators can take control using either the Windows Client or Java Client utility. Inclusion of a Java-based client allows the switches work with Java JRE 6 enabled operating systems. The client software allows operators to exchange keyboard, video and mouse signals with the computers attached to the CS1708i / CS1716i just as if they were present locally and working on the equipment directly. With the Panel Array feature, the video output of up to 8 or 16 computers per switch can be displayed at the same time. In addition to TCP/IP connectivity, the CS1708i / CS1716i provides KVM ports for a local console – allowing access and control from the data center as well as over the Net. Local access to any computer on the installation is easily accomplished either by pressing the front panel port selection switches; entering hotkey combinations from the keyboard; or by means of a powerful menu driven multilingual on-screen display (OSD) system. A convenient Auto Scan function also permits automatic scanning and one-by-one monitoring of the activities of selected computers

For local access, the CS1708i / CS1716i supports resolutions of up to 2048 x 1536. For remote access, the switches support up to 1600 x 1200 @ 60Hz / 24 bit color depth. With its advanced security features, the CS1708i / CS1716i provide the fastest, most reliable, most cost effective way to remotely access and manage widely distributed multiple computer installations.



## » FEATURES

### Hardware

- A single console controls up to 8 (CS1708i) or 16 (CS1716i) computers
- Daisy chain up to 15 additional units – control up to 128 (CS1708i) or 256 (CS1716i) computers from a single console\*
- Auto-sensing of station's position on daisy chained installations; no need for manual dip switch setting; front panel led indicates station's position
- Hot pluggable – add or remove computers without having to power down the switch
- Multiplatform support – Windows, Linux, Mac, and Sun
- Front panel USB 1.1 hub allows connected computers to access USB peripherals
- Dual Interface – supports PS/2 or USB keyboard and mouse computer connections with automatic interface detection
- USB / PS/2 keyboard and mouse emulation – computers boot even when the console focus is elsewhere
- Multimedia USB keyboard support (PC, Mac and Sun)
- Superior video quality – up to 2048 x 1536; DDC2B for the local console; up to 1600 x 1200 @ 60Hz / 24 bit color depth for remote sessions
- Video DynaSync™– stores the console monitor's EDID (Extended Display Identification Data) to optimize display resolution
- Rack mountable in a 19" (1U) system rack

\* Compatible KVM Switches include the following:

ACS1208A, ACS1216A, CS1708, CS1716, CS1708A, CS1716A, KH1508, KH1516

### Management

- Convenient computer selection via front panel pushbuttons, hotkeys and multilingual on-screen display (OSD) menus
- Up to 32 concurrent logins
- Supports ALTUSEN CC (Central Control) Management
- Multilanguage web UI support featuring a tree-structured local and remote OSD
- Adjustable video quality for flexible adaptation to diverse network environments
- Auto Scan feature for monitoring user-selected computers
- Broadcast mode; operations simultaneously performed on all selected computers (software installation, system-wide shutdown, etc.).
- Firmware upgradable
- Backup and restore configuration and user account settings
- Event logging
- Enable/disable browser access

### Ease-to-Use Interface

- Local Console, browser-based, and AP GUIs offer a unified Multilanguage interface to minimize user training time and increase productivity
- Multiplatform client support (windows, Mac OS X, Linux, Sun)
- Multibrowser support (IE, Mozilla, Firefox, Safari, Opera, Netscape)
- Port names automatically reconfigured when station sequence is changed
- Panel array mode enables user to monitor multiple servers from single screen at the same time – each selected server's video output appears in a separate panel – users can easily select the number of panels to view
- Windows client and Java client software support; Java client works with all operating systems

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### Advanced Security

- Secure keyboard/mouse/video transmission via RC4 128bit encryption
- 128bit SSL browser access
- Two level password security – up to 64 user accounts with separate profiles for each
- External (Remote) authentication support: RADIUS, LDAP, LDAPS, MS Active Directory
- Support for IP/Mac Filter
- Local and remote access logged and authenticated

### Virtual Remote Desktop

- Resizable remote desktop window
- Message board allows logged in users to communicate with each other, and allows a user to take exclusive control of the KVM functions
- Mouse DynaSync™
- On-screen keyboard with multilanguage support
- BIOS-level access

## » Benefits

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#### Ease-to-use user interface

A user-friendly, intuitive, GUI provides convenient, access, configuration and operation. Local Console , browser-based and AP GUIs offer a unified multilanguage interface to minimize user training time and increase productivity

#### Virtual Remote Desktop

The remote desktop can appear full-screen or as a window with a flexible scaling video display. Advanced features such as the Message Board, and Mouse DynaSync™, create a Virtual Remote Desktop that allows users to operate servers from remote locations just as if they were actually at the local site.

#### Superior Video

With enhanced fps throughput for crisp responsive video display, the switches offer resolutions of up to 1600 x 1200 @ 60Hz; vibrant 24-bit color depth for rich remote session display

#### Panel Array Mode

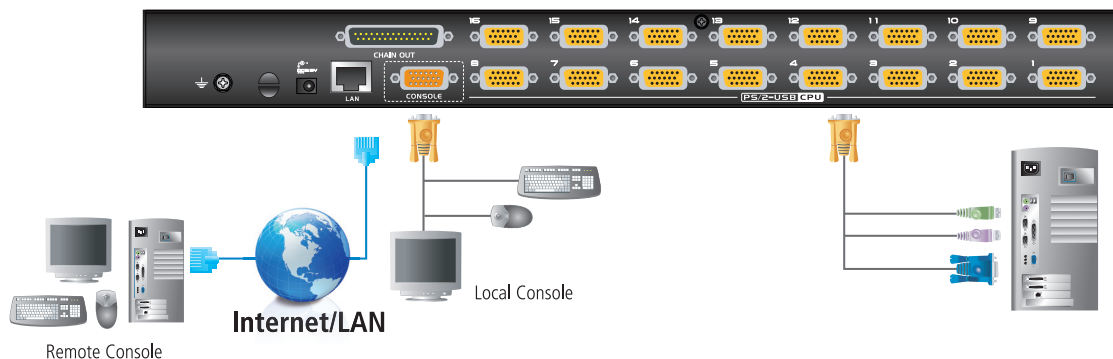
Panel array mode permits simultaneous monitoring of the video output of the installations' servers. Operators can monitor the screen display of up to 16 servers per switch for real-time server monitoring

#### Message Board

To alleviate the problem of access conflicts arising from multiple logins, the Message Board functions like an Internet chat program, allowing users who are logged in to instantly communicate with each other.

#### Mouse DynaSync™

Automatically synchronizes the local and remote mouse movements for perfect alignment of mouse pointers, regardless of server mouse acceleration settings.



## » Specification

Function		CS1708i	CS1716i
Computer Connections	Direct	8	16
	Max	128 (via daisy chain)	256 (via daisy chain)
Port Selection		OSD/GUI; Hotkey; Pushbutton	
Connectors	Console Port	1 x SPHD-18 Male	
	KVM Ports	8 x SPHD-15/17 Female	16 x SPHD-15/17 Female
	Daisy Chain	1 x DB-25 Male	
	Power	1 x DC Jack	
	LAN	1 x RJ45 Female	
	FW Upgrade	1 x RJ-11	
	USB Port (1.1)	1 x USB Type A	
Switches	Reset	1 x Semi-recessed pushbutton	
	Port Selection	8 x Pushbutton	16 x Pushbutton
	FW Upgr. Rec.	1 x Slide	
LEDs	On Line	8 (Orange)	16 (Orange)
	Selected	8 (Green)	16 (Green)
	Station ID	1 x 2-digit, 7-segment (Orange)	
	Power	1 (Dark Green)	
	10/100 Mbps	1 (Orange/Green – at LAN port)	
Emulation	Keyboard/Mouse	PS/2, USB	
Video	Local Console	2048 x 1536; DDC2B	
	Remote	1600 x 1200 @ 60Hz / 24bit color depth	
Scan Interval (OSD Select)		1–255 sec.	
Power Consumption		DC 5.3 V; 9.5W	DC 5.3 V; 11w
Environment	Operating Temp.	0–50° C	
	Storage Temp.	-20–60° C	
	Humidity	0–80% RH, Non-condensing	
Physical Properties	Housing	Metal	
	Weight	2.81 kg	3.00 kg
	Dimensions (L x W x H)	43.30 x 16.00 x 4.40 cm	

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